

# S'COOL BREEZE



Student's Cloud Observations On-Line

Volume 3 , Issue 3

March 2003



**First Columbia Launch  
STS - 1 April 1981**

## Inside this issue:

Tribute to Columbia	1
A Nation Remembers...	2
Helping Children Cope...	2
Data Verification ... Live	3
NASA STEM	3
Quarters Worth of Websites	3
Teacher Corner	3
Photo Contest Winners	3
"Future Careers in Science"	4

## Tribute to the Columbia Crew

### Statement from Astronaut Spouses and Children

We, the spouses and children of the NASA astronaut corps, would like to thank the people of the world from the bottom of our hearts for the incredible outpouring of support and love that you have shown us in our time of deep grief. NASA centers have been overwhelmed with cards, letters, emails, and phone calls from you expressing your concern and support. We have also received hundreds of personal calls, emails, flowers, food, and cards at our homes. The makeshift shrine in front of the Johnson Space Center is overflowing with flowers, signs, and balloons from well wishers from all over the world. Memorial services throughout the world have honored our dear friends. You, our brothers and sisters of the world community, have been a tremendous source of comfort and love to us and we are so grateful. We are deeply mourning our dear friends Rick, Willie, Mike, Kalpana, Ilan, Laurel, and Dave and we ask that you continue to keep their parents, wives, husbands, and children in your thoughts and prayers.

We would also like the world community to know that as terrible and as difficult as this journey has been and will continue to be for all of our families, we cannot stress enough how blessed and honored we feel to be counted as members of the NASA family. We proudly support the noble goals and objectives of NASA and we will continue to support NASA in its finest and its darkest hours. It is our deepest hope that you also will continue to share in our belief and support of NASA's dreams. We believe NASA is a beacon of hope and light to all nations, for NASA has proven beyond the shadow of a doubt that peoples from all races, genders, cultures, religions, and political backgrounds can transcend those differences and become the closest of friends. And these friends will continue to pursue space exploration and scientific discovery for the single purpose of helping and furthering all of mankind. Thank you for your love and support.

"The husbands, wives, and children of the NASA Astronaut Corps."



**STS-107 Mission Insignia**





Rick D. Husband  
Mission Commander  
Married, father of 2  
Amarillo, TX



Michael P. Anderson  
Payload Commander  
Married, father of 2  
Plattsburgh, NY

David M. Brown  
Mission Specialist 1  
Single  
Arlington, VA



Kalpana Chawla  
Mission Specialist 2  
Married, no children  
Karnal, India



William C. McCool  
Pilot  
Married, father of 3  
San Diego, CA



Ilan Ramon  
Payload Specialist 1  
Married, father of 4  
Tel Aviv, Israel

Laurel Blair Salton Clark  
Mission Specialist 4  
Married, mother of 1  
Racine, WI



For a complete biography on all of the astronauts visit: <http://www.nasa.gov/columbia/crew/index.html>

## *Helping Children Cope with the Columbia Tragedy*



Provided by Kerry Joels, Total Learning Research Institute

Children can manifest anxiety when they feel that their world is not safe, or when they feel a close kinship with a tragic event. Some children may have a special interest and a special awareness. To be pro-active, there are several things that you can do with your class. Based on the experience with school children after the Challenger incident in 1986, here is some information and some suggestions. You need to assess what your class needs.

**Assessment:** 1. Are the students talking about the shuttle without you starting the conversation? 2. Is there any emotionalism around the event? 3. Are they asking you questions? 4. Is their attention span shorter than usual? 5. Are the children quieter or more somber than usual?

Psychologically we humans go through stages to cope with tragedy and death.

**First**, it is important to reassure students that they are safe and that answers will be found to try to keep this from happening again. It is important for students to "have an ending". This means they can commemorate or honor the fallen heroes. This can be done in many ways: Have each student say what going into space means to them. Write a letter to the families telling them how much they admired the brave astronauts. Make a small remembrance area and put little messages or objects there. Ask how they think the astronauts on the Space Station and the other workers at NASA feel?

**Second**, the students need to focus on a future goal: Why do we explore space? Would they like to go to Mars? Do they recognize that being a pioneer is dangerous? Can they name other pioneers and heroes? (9-11 firemen, soldiers fighting terrorism, etc.) Many people have jobs that are very dangerous, but if they love what they are doing, they are willing to take the risk. What would make the students take a risk?

**Finally**, children need to know that they are the pioneers of the future. The lessons they learn each day prepare them to step into the world of tomorrow. With their hard work they can show our country and the families of the Columbia astronauts that we will continue their dream. We can honor them in our community and help people come together.



## Data Verification Webcast—Live



Have you ever wondered how scientists can verify that data collected from satellites located 705 km above the Earth are accurate? Or wondered how scientists can combine those data with ground-based measurements to paint a global picture? Discover how scientists are meeting such challenges, plus a whole lot more, when the SPI Office webcasts live from the peaks of the Rocky Mountains in Colorado. Join us live on Tuesday, March 25<sup>th</sup> at 1:00pm EST when we rendezvous with Aqua Project Scientist Dr. Claire Parkinson in Colorado to investigate a US sampling of the worldwide calibration and validation activities that are being conducted by the Aqua Instrument Science Teams. Then come back on Thursday, March 27<sup>th</sup> at 1:00pm EST when we venture into the field with investigators from the Cold Land Processes Experiment (CLPX) to discover how satellite, aircraft, and ground-based measurements are combined in a unique and comprehensive study of surface hydrology in the western United States. Webcasts will feature current satellite data from Aqua instruments, and, of course, the live chat session in which our exciting guests will answer your questions as they are sent in. To access the webcasts log onto <http://spioffice.gsfc.nasa.gov>, and click on "RESOkit," plus watch for an email update.

## Quarter's Worth of Websites

**Columbia Condolence Book:** <http://spaceflight.nasa.gov/feedback/condolence/>

In the days that followed, thousands of messages poured into NASA's Human Space Flight Web, and some of those have found their way to the Condolence Book. People all over the world expressed their sympathy and sent messages of hope to the families of the lost crew and to the members of the NASA Family. Why not send your own note by mail to the Columbia families?

**Shuttle Press Kit - STS-107:** <http://www.shuttlepresskit.com/STS-107/>

Learn about Columbia STS-107's mission profile, experiments, crew profiles and much more.

**GRIN: Great Images in NASA:** <http://grin.hq.nasa.gov/>

GRIN is a collection of over a thousand images of significant historical interest. The collection is intended for media and the general public looking for high quality photographs. Search by subject, center or keywords.



## The Winners of S'COOL's 1st Cloud Photo Contest



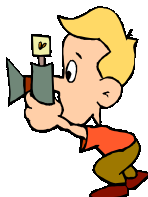
S'COOL received over 100 photos for our first photo contest. The decision took longer than we had anticipated because of all the great photos submitted. We enjoyed the process so much that we have decided to have yet another cloud photo contest. The highlight of this **2nd Cloud Photo Contest** will be **precipitating** clouds. Therefore, get your cameras prepared and be on the lookout for **cumulonimbus** or **nimbostratus** clouds (Please be mindful of lightning storms that may be associated with these cloud types). 1st, 2nd and 3rd place winners will be announced on our website and in the June newsletter. You may send us photos developed from any film type or send us a digital picture of your entry. We will accept photos throughout the entire month of April. Be sure to include your school and teacher name on photos submitted. Photos sent will become the property of NASA and will not be returned. The 3 FIRST PLACE WINNERS of S'COOL's First Photo Contest are:

**High Level:** Taipei Municipal Girls HS; Taipei, Taiwan

**Mid Level:** Saint James School; Falls Church, Virginia

**Low Level:** Pequot Lakes School; Pequot Lakes, Minnesota

For a list of additional winners and their winning photos please visit our website at: <http://scool.larc.nasa>



## Teacher Corner

Over 1450 participants are now registered.  
Keep spreading the word!

**Have you changed your school information?** Please remember to notify us of any changes in your school information, e-mail address or anything you feel is important for our database.

**Remember, Daylight Saving Time begins Soon!!!**

When submitting your request for a satellite overpass schedule be sure to select 'daylight saving time' on the Overpass Calculator. Your school's schedule will be automatically adjusted to include the time change.

**5th Annual Summer S'COOL Workshop 2003**  
**For more information visit our website at:**

<http://asd-www.larc.nasa.gov/SCOOL/summer2003/>

**Thank you for your continued participation!**

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Hampton, VA 23681-2199



## ***Upcoming Events***

NSTA National Convention  
March 27 -30, 2003  
Philadelphia, PA USA

IOP—Intensive Observation Period  
April 14-18, 2003

Summer S'COOL Teachers' Workshop  
June 23—27, 2003  
NASA Langley Research Center  
Hampton, VA USA

<http://asd-www.larc.nasa.gov/SCOOOL/visits.html>

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Roberto Sepulveda, editor  
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## ***“Future Careers in Science”***

*I have been teaching for 30 years and a member of the Minnesota Department of Education's Best Practices in Science Program. During the course of my teaching I am always looking for hands on technology science like Journey North and your SCOOOL program that meet the needs of my students. What I call real life science that incorporates good practical uses of technology. Keep up the good work and you can share with your colleagues that this program is helping elementary teachers promote science education and by doing so giving their students possible future careers opportunities in science.*

*Jim Minerich, 4th Grade Teacher, Pequot Lakes Elem.; Pequot Lakes, Minnesota*